

# Testing classes with unit tests vs testing features the TDD way

Testing  
classes

Testing  
features

Conclusion

# Testing classes

by writing unit tests

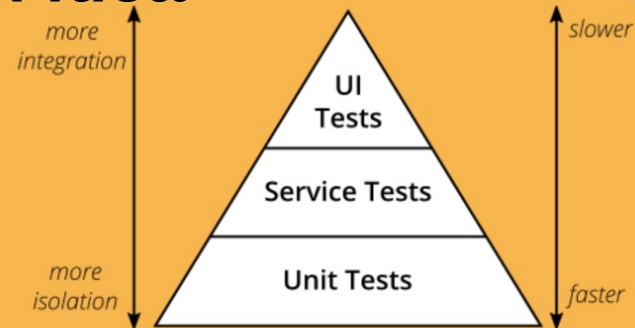
**Main idea**

**Benefits**

**Drawbacks**



## Main idea



- **unit = class**
- **test the unit**
  - **mock all dependencies**
  - **cover main features, a few edge cases**

## **Benefits**

- **Makes it easy to follow most coding principles**
  - **SOLID, KISS DRY etc**
- **Setup simplified by the use of mocks**
- **Easy to achieve high code coverage on each class**



## **Drawbacks**

- **Testing implementation**
- **Too much focus on mocking and behavior setup**
- **Features are at least 1 level above classes in the pyramid so less tested**
- **Classes not necessarily developed incrementally, likely not optimal**
- **Less refactoring during development, less improvement..**

# Testing features

By test driving features

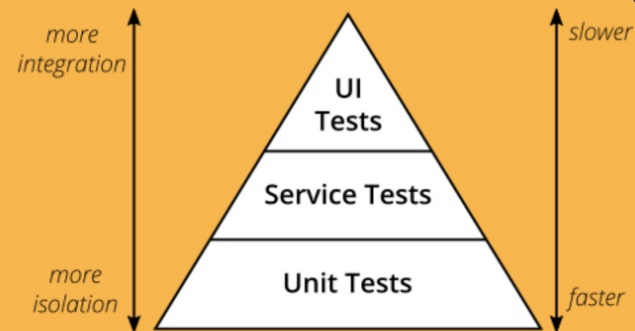
**Main idea**

**Benefits**

**Drawbacks**



# Main idea



- **Unit = feature**
- **Test features, not classes**
- **TDD approach: tests first**
- **Incremental solution**

## Benefits

- The incremental solution is very likely to be better compared to one written the non-TDD way
- No way to copy-paste code



- Makes it easy to follow most coding principles
- No unnecessary code produced



## Drawbacks

- Takes patience to get used to think and work the TDD way
- Complex feature tests may require extensive setup, in case of a complex system
- Maintaining the tests could be a bit more challenging, as the code is changing
- The business/management could be hard to convince this is a better way, as the team is slower to deliver when starting to use this method

## Conclusion





- TDD definitely gets the solution closer to perfection!
- More approaches to achieve quality code (maintainable, following today's standards)
- Different projects might need different development methodologies, therefore useful to know more
- As engineers, useful not to get "religious", keep our mind open and keep learning





Marco & Alessandro  
for leading the walk!



The gang  
for joining the walk!



bouvet  
for making it possible!

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